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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/615,381	07/09/2003	Takeshi Nishiuchi	000593B	1378
23850 75	590 05/05/2005		EXAMINER	
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			BUEKER, RICHARD R	
1725 K STREE SUITE 1000	ET, NW		ART UNIT	PAPER NUMBER
	ON, DC 20006	:-	1763	

DATE MAILED: 05/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			1/2>
	Application No.	Applicant(s)	
	10/615,381	NISHIUCHI	
Office Action Summary	Examiner	Art Unit	
	Richard Bueker	1763	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	(36(a). In no event, however, may a reply be ting year.  In within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed  s will be considered timely. the mailing date of this communicatio D (35 U.S.C. § 133).	<b>.</b> .
Status			
1) Responsive to communication(s) filed on 18 A	nril 2005.		
·- ·	s action is non-final.		
3) Since this application is in condition for allowa		osecution as to the merits is	s
closed in accordance with the practice under E	·		
Disposition of Claims			
<ul> <li>4)  Claim(s) 12-16 is/are pending in the application 4a) Of the above claim(s) 16 is/are withdrawn for 5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 12-15 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or claim(s) are subject to restriction.</li> </ul>	from consideration.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by the	Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	• • • • • • • • • • • • • • • • • • • •	·	d).
11)☐ The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	es have been received. Es have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s)			
Notice of References Cited (PTO-892)	4) Interview Summary		
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> </ol>	Paper No(s)/Mail Da 5) Notice of Informal P	ate Patent Application (PTO-152)	
Paper No(s)/Mail Date 7/9/03; 10/27/03 and 9/21/04	·		

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Claim 16 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on April 18, 2005.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 12-15 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Steube (4,233,937) (see Figs. 1 and 7, for example), who discloses a surface treating apparatus that is a vacuum evaporation coating apparatus comprising a vacuum chamber that contains a heater for melting and evaporating a wire-shaped vapor-depositing material. The wire-shaped vapor-depositing material can be aluminum (col. 6, lines 15-16). A work support for retaining the work-piece to be coated is provided in the vacuum chamber. The apparatus of Steube includes a supply means for supplying said wire-shaped vapor-depositing material. The supply means of Steube includes a reel (see element 134 of Fig. 7 and col. 6, line 8 to col. 7, line 8) as recited in claim 13. The feed rate of the Steube's wire supply means is adjustable by the variable speed motor 168 (see Fig. 5

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and also col. 6, line 63 to col. 7, line 8, and col. 8, lines 61-65), and therefore the feed rate of the wire-shaped vapor depositing material can be adjusted as required by claim 15. The supply means of Steube is inherently capable of supplying a wire-shaped vapor-depositing material that contains a "vapor deposition controlling gas". It is noted that claim 12 recites "a melting/evaporating source for melting and evaporating a wireshaped vapor-depositing material containing a vapor deposition controlling gas" (emphasis added), and "a vapor-depositing material supply means for supplying said wire-shaped vapor-depositing material containing the vapor deposition controlling gas" (emphasis added). Therefore, the recited "wire-shaped vapor-depositing material containing the vapor deposition controlling gas" is included in the claims only as a recitation of an intended use of the claimed apparatus. Therefore, claims 12-15 are not limited to only an apparatus using "a wire-shaped vapor-depositing material containing a vapor deposition controlling gas", and claims 12-15 also include an apparatus such as Steube's apparatus which is *inherently* capable of using a "a wire-shaped vapordepositing material containing a vapor deposition controlling gas" as a wire-shaped vapor-depositing material source.

Even if, for the sake of argument, Steube's description of his apparatus alone were not considered to inherently anticipate the apparatus of applicants' claims 12-15, these claims would still be considered unpatentable for the further reasons stated in the rejection below.

Claims 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Steube (4,233,937) taken in view of Satoh (JP 60-92466). As noted above, Steube

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teaches the use of an aluminum wire as his wire-shaped vapor-depositing material source. Satoh (see the attached English translation) teaches that an aluminum wire that is conventionally used as a source material for vacuum evaporation coating typically or inherently contains hydrogen. Satoh teaches that it is desirable to reduce the amount of hydrogen in the aluminum wire prior to the vapor deposition process, because this will improve the quality of the deposited aluminum coating. It is noted also, however, that Satoh also makes clear that an aluminum coating can successfully be deposited by using an aluminum wire of unreduced hydrogen content, although the resultant coating is of lesser quality. It would have been obvious to use the type of hydrogen containing aluminum wire vapor source material described by Satoh as the aluminum vapor source material in Steube's apparatus, with either a reduced hydrogen content as preferred by Satoh, or with an unreduced hydrogen content as not preferred by Satoh, because Satoh makes clear that it was known in the prior art that an aluminum coating could successfully be deposited on a work-piece by using an aluminum wire vapor source material that contains hydrogen. Regarding the use of an aluminum wire with an unreduced hydrogen content, which is not preferred by Satoh, see *In re Boe*, 148 USPQ 507.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Bueker whose telephone number is (571) 272-1431. The examiner can normally be reached on 9 AM - 5:30 PM, Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parvis Hassanzadeh can be reached on (571) 272-1435. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Richard Bucker Primary Examiner Art Unit 1763